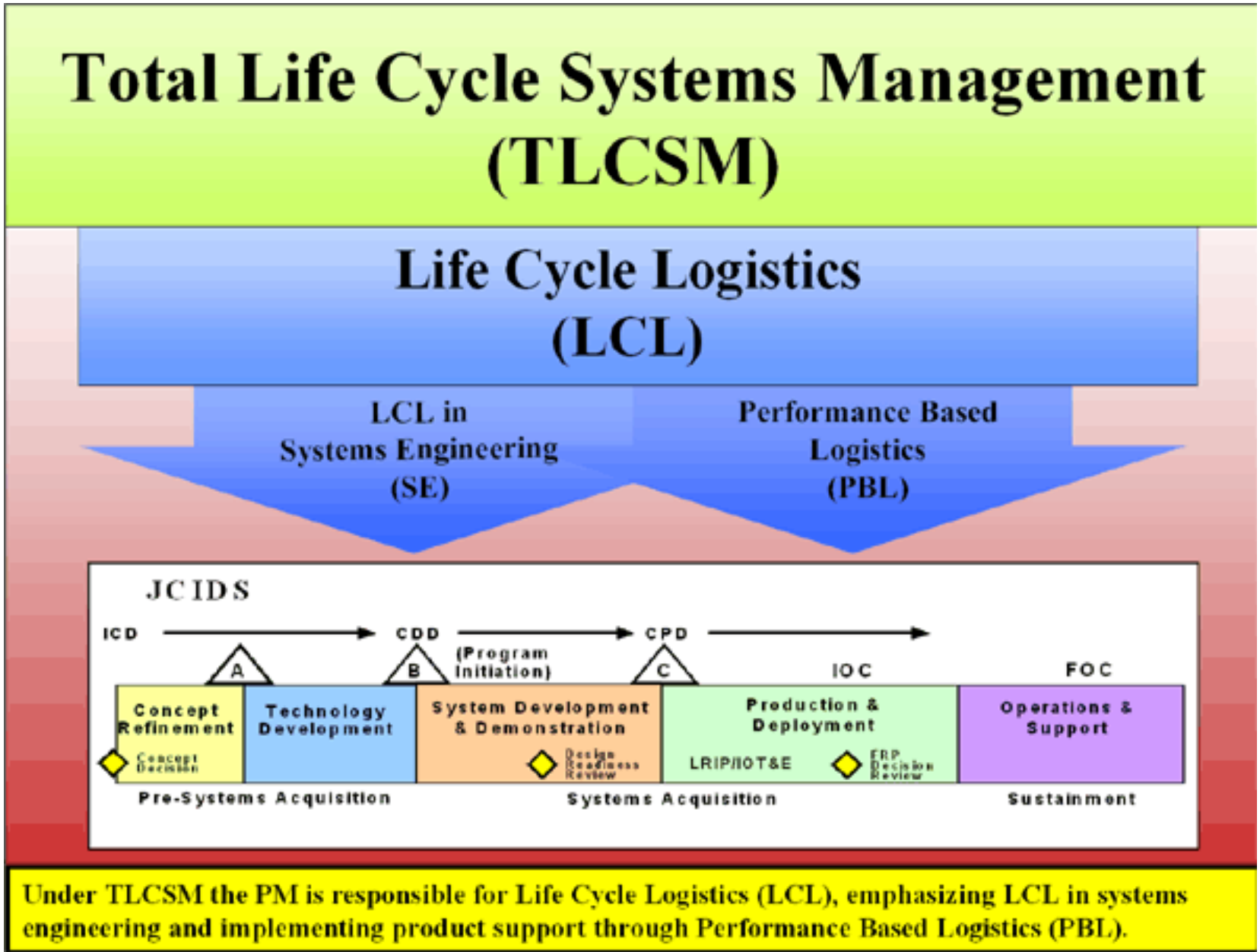
Life Cycle Logistics



The Total Life Cycle Systems Management Initiative

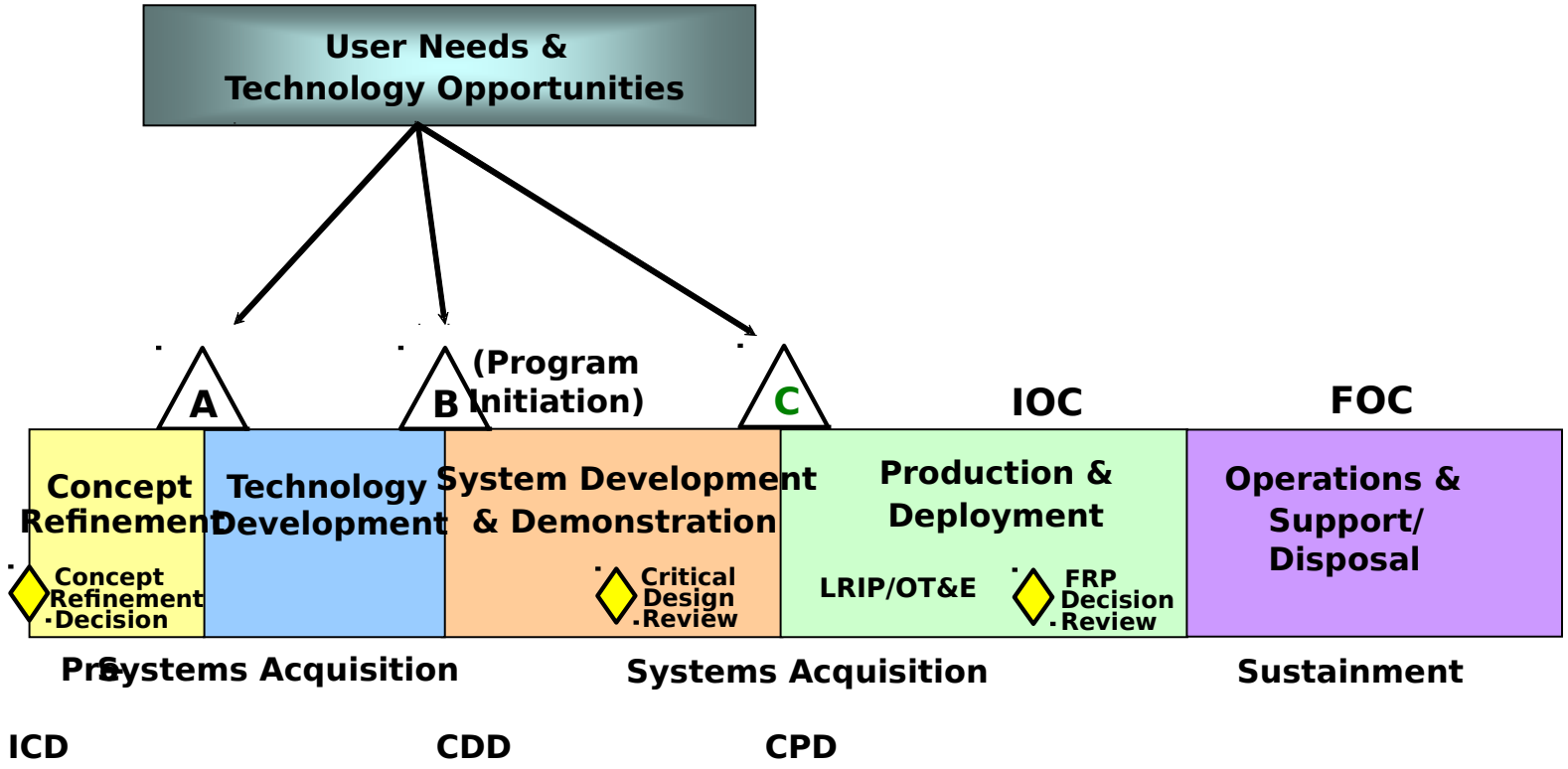
TLCSM Definition:

LCSM is the implementation, management, and oversight, by th esignated PM, of all activities associated with the acquisition (I. evelopment, production, fielding, sustainment, and disposal) of oD weapon or materiel system across its life cycle.

Reference: TLCSM Guidance Template

Total Life Cycle Systems Management (TLCSM)

The 5000 Model

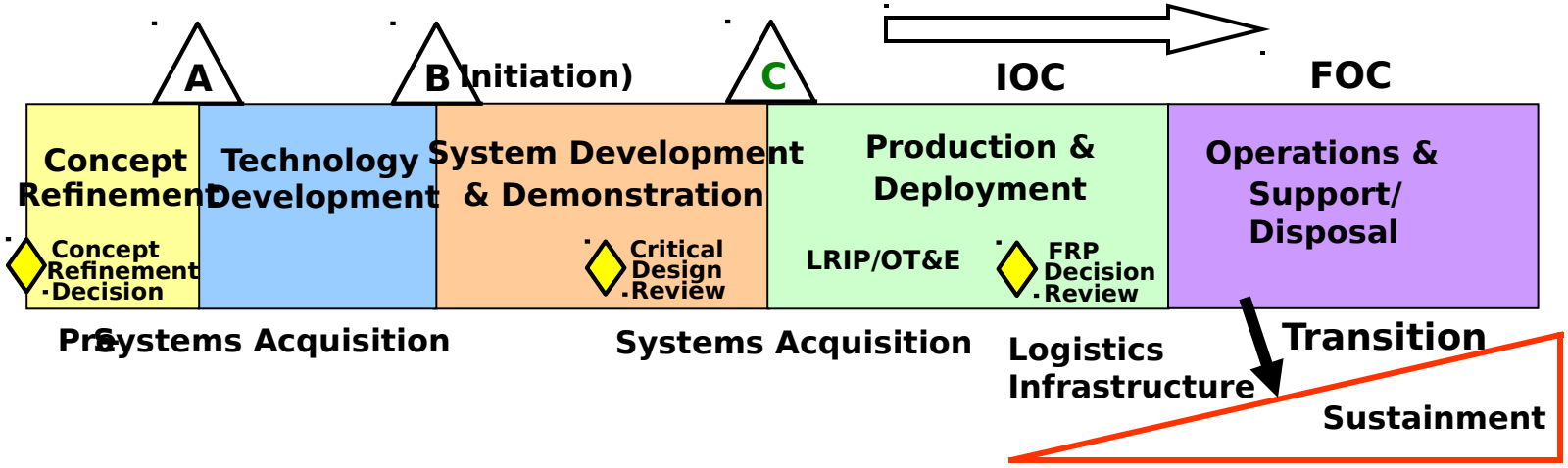


ICD: Initial Capabilities Document
CDD: Capabilities Development Document
CPD: Capabilities Production Document
IOC: Initial Operating Capability
FOC: Full Operating Capability
LRIP: Low-Rate Initial Production
OT&E: Operational Test and

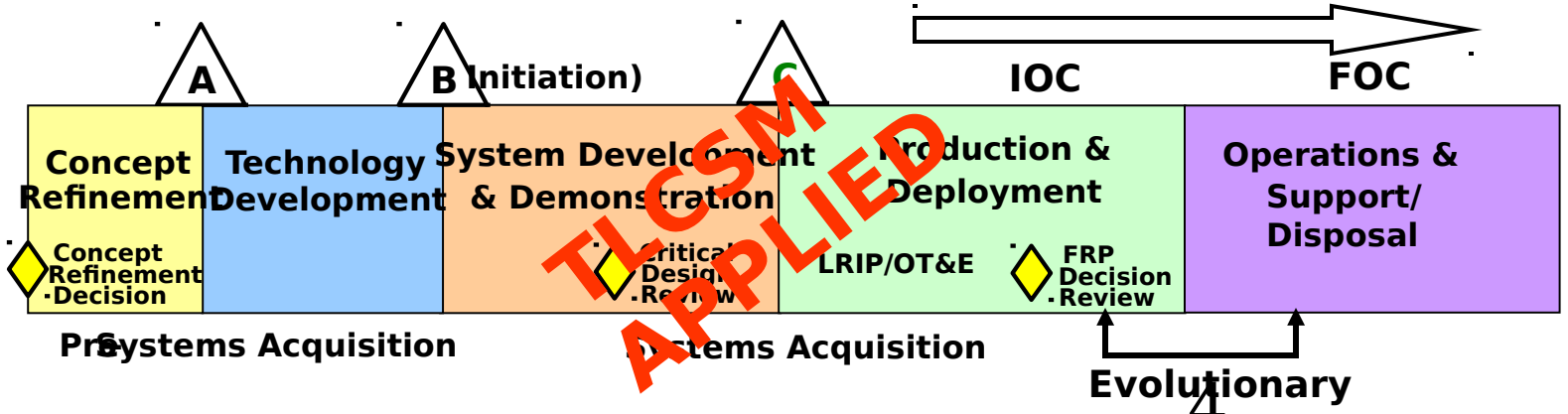
Total Life Cycle Systems Management (TLCSM)

TLCSM – Before and After

Before TLCSM ..... PM's Role Diminishes



After TLCSM ..... PM's Role Continues



Application of TLCSM In the Weapon System Life Cycl

Concept Refinement Phase and Technology Development Phase

Key Logistics activities that must be completed before MS B:

- **Preparation and/or assessment of sustainment planning and parameters in the Capabilities Development Document (CDD)**
- **Description of the product support strategy documented in the Acquisition Strategy (ASR)**
- **Description of the appropriate logistics metrics, criteria, and funding requirements in the Acquisition Program Baseline (APB).**
- **Description of the appropriate logistics considerations and test points in the Test and Evaluation Master Plan (TEMP)**

TLCSM In the Weapon System Life Cycle

System Development and Demonstration (SDD) Phase

Key Logistics activities that must be completed before MS C:

- **Updated support strategy within the Acquisition Strategy (ASR)**

- **Updated logistics criteria and parameters in the Acquisition Program Baseline (APB)**

- **Logistics and overall sustainment requirements referenced in the Capabilities Production Document (CPD)**

- **Logistics parameters and test points included in the Test and Evaluation Master Plan (TEMP).**

- **Acceptable performance in development, test and evaluation, and operational assessment, to include:**

  - **Mature software capability.**
  - **Acceptable interoperability.**
  - **Acceptable operational supportability.**

TLCSM In the Weapon System Life Cycle

Production and Deployment Phase

Key Logistics activities that must be completed or updated before Operations and Support Phase:

- **Satisfaction of sustainment criteria addressed in Initial Operational Test and Evaluation (IOT&E).**

- **Performance Based Logistics Agreements (PM, Product Support Integrator, War fighter and Support Providers).**

- **Fully funded sustainment program.**

- **Pre-Initial Operational Capability (IOC) Review**

  - This review performed at Service – level is carried out to:
  - **Confirm design maturity of the system.**
  - **Determine status of correction of any deficiencies identified.**
  - **Confirm configuration control.**
  - **Certify Product Support Integrator/Providers plans to meet war fighter requirements.**
  - **Verify Product Support Integrator/Provider agreements/ contracts and funding in place.**

TLCSM In the Weapon System Life Cycle

Post IOC Sustainment Strategies

- **Conduct re-assessment of the existing support strategy vis-à-vis new system performance and support requirements at each evolutionary phase; Make changes as necessary.**

- **Address the support implications of the logistics support strategy for both the initial block and follow-on incremental deliveries.**

TLCSM In the Weapon System Life Cycle

Post Deployment Reviews

Services shall conduct periodic assessments of system support strategies considering actual vs. expected levels of performance and support.

These reviews occur nominally every three to five years after IOC or when precipitated by changes in requirements/design or performance problems, and should include:

- **Product Support Integrator/Support Provider performance.**
- **Product improvements incorporated.**
- **Configuration control.**
- **Modification of performance based logistics agreements as needed.**